

**Honolulu High Capacity Transit
Corridor Project
Contract Packaging Plan**

Rev2 February 5, 2009

DRAFT

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Introduction

The Contract Packaging Plan and associated schedule were developed in mid-September 2008 in response to a request from FTA's PMO Risk Assessment Consultant to have a comprehensive overall schedule which includes the gap between the GEC's PE schedule and the construction program schedule. The request also suggested that the program schedule highlight various FTA review activities required as a precedent to the negotiation of a Full Funding Grant Agreement (FFGA).

At the time of preparing this document, the City and County of Honolulu (City) is seeking FTA authorization to enter Preliminary Engineering for the project. The Administrative Draft Environmental Impact Statement is under review and work is continuing on advanced conceptual engineering.

A complete description of the Project and the organization being utilized by the City to implement the Project during the PE Phase can be found in the Project Management Plan.

The City intends to implement the project following Preliminary Engineering within the Rapid Transit Division (RTD) of the City's Department of Transportation Services (DTS).

To augment its direct staff on the project, the City also intends to use a Program Management Consultant (PMC) who would fill certain specialized positions within the RTD team.

RTD also intends to select a General Construction Manager to oversee all remaining services, procurement and construction on the project. The responsibilities of the General Construction Manager (GCM) will be to assist the City in oversight of all of the Project's design, construction, procurement, manufacturing, installation, testing and commissioning.

While a portion of the Project construction will be procured by the Design-Build (DB) method, most of the project will be implemented through the procurement of individual design organizations under Service contracts (SV) who will prepare design documents for individual construction packages to be procured with the Design-Bid-Build (DBB) method. The work of these individual package design teams will be overseen by the GCM. Two project wide contracts are currently proposed to be issued as Manufacture-Install (MI) contracts (for Systems including Vehicles and for Elevators/Escalators). Two project wide contracts are proposed to be Owner Furnish (OF) contracts (for Ticket Vending Machines and for Plants/Shrubs).

In Section 3 each of the 35 contracts are identified. In Sections 6 thru 10 information is provided on each contract on scope, schedule, budget, type of contract, responsible party and interface with other contracts.

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Synopsis of Changes

1) Revs made Nov 3 thru 5, 2008 to Contract Packaging Plan include renumbering of contracts and revs to schedule dates to be consistent with latest project schedule data. Rev #s added to all sheets. Revs made by I Hubbard.
Rev data stored on ProjectSolve at

2) Revs made February 4, 2009 to include Replace Salt lake Alignment with the Airport Alignment.

3)

(Information to be inserted when Contract packages added or revised.)

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Procurement Packaging Contract Summary:

The Table below reflects the current thinking about procurement packaging which identifies 35 individual contracts although it is to be expected that there will be others added as program definition is further developed. Furthermore this particular breakout of contracts is subject to modification during Preliminary Engineering. The contracts reflected in the schedule include:

	Contract #	Activity #
Service Contracts (14)		
Program Management Support	SV-900	S100 S120
General Construction Management	SV-910	V100 V120
Kamehameha Utility & Guideway Design	SV-330	K108 K110 K120
Airport Utility & Guideway Design	SV-430	G120 G130 G140
City Center Utility & Guideway Design	SV-530	C100 C110 C120
West Oahu Stations (3) Design	SV-140	X100 X110
Farrington Stations (3) Design	SV-240	R120 R130
H2 Ramps at Pearl Highlands Park Facility	SV-230	R500 R510
Pearl Highlands Station & Multi Level Park Facility	SV-245	R320 R330
Kamehameha Stations (2) Design	SV-340	J100 J110
Airport Stations (4) Design	SV-440	H100 H110
Dillingham Stations (3) Design	SV-540	tbd
City Center Stations (3) Design	SV-542	U100 U110
Kaka'ako Stations (3) Design	SV-545	Y100 Y110

Design-Build Construction Contracts (2)		
West Oahu/Farrington Guideway & Utilities	DB-1200	W100 W110 W120
Maintenance & Storage Facility Construction	DB-200	M100 M110 M120

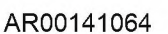
Design-Bid-Build Construction Contracts (15)		
Kamehameha Utility Relocations	DBB-350	K200 K210
Salt Lake Utility Relocations	DBB-450	G200 G230
City Center Utility Relocations	DBB-550	C200 C210
Kamehameha Guideway Construction	DBB-360	K300 K310
Airport Guideway Construction	DBB-460	G300 G310
City Center Guideway Construction	DBB-560	C300 C310
West Oahu Stations (3) Construction	DBB-170	X200 X210
Farrington Stations (3) Construction	DBB-270	R200 R210 R250

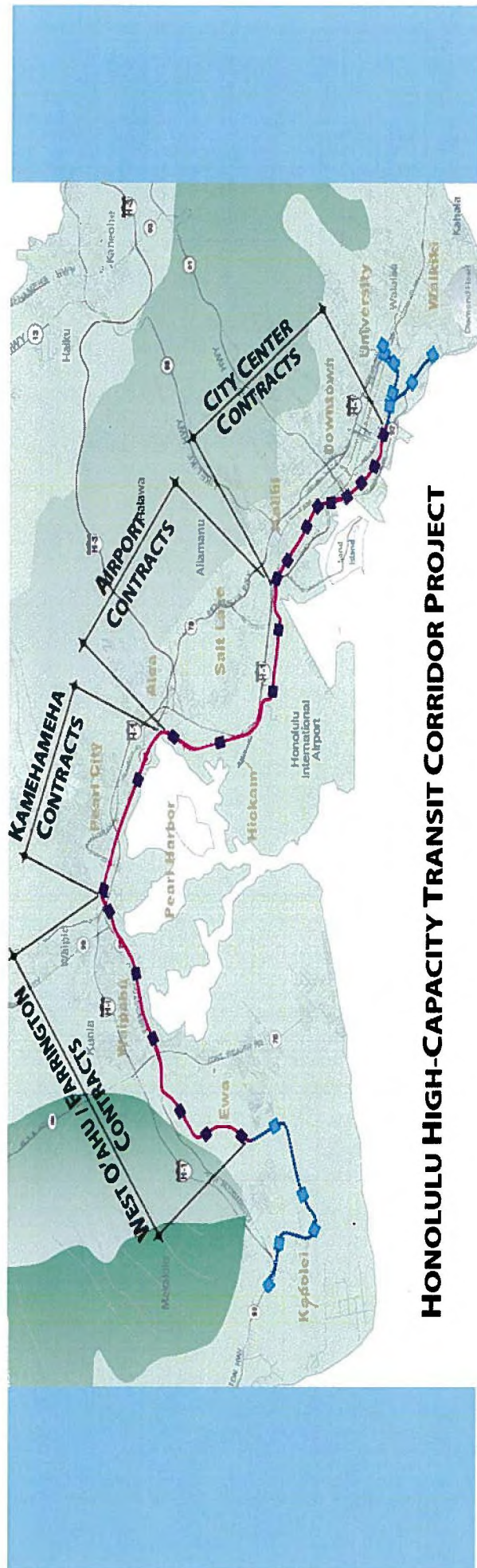
		R260
Pearl Highlands Station & Multi Level Park Facility	DBB-275	R400 R410 R420
H2 Ramps at Pearl Highlands Park Facility	DBB-260	R600 R610
Kamehameha Stations (2) Construction	DBB-370	J200 J210 J220 J230
Airport Stations (3) Construction	DBB-470	H100 H110
Dillingham Stations (3) Construction	DBB-570	tbd
City Center Stations (3) Construction	DBB-572	U200 U210 U220 U330
Kaka'ako Stations (3) Construction	DBB-575	Y200 Y210 Y220 Y230

Manufacture & Install Contracts (2)		
Vehicles/Systems procure, install, test, commission	MI-920	P320 P380 P420 P460 P470 T250
Elevators/Escalators procure, install, test, commission	MI-930	L100 L110

Owner Furnish Contracts (2)		
Owner Furnish ticket Vending Machines	OF-940	TBD
Owner Furnish Plants & Shrubs	OF-950	TBD

In Sections 6 thru 10 each of these contracts are identified by a Contract Number (e.g. DBB-460), a CPM Schedule activity code (e.g. I-740) and details are provided on scope, schedule, budget, type of contract, responsible party and interface with other contracts.





HONOLULU HIGH-CAPACITY TRANSIT CORRIDOR PROJECT

CONTRACT PACKAGING PLAN.

West Oahu contracts (1)	Farrington contracts (2)	Kamehameha contracts (3)	Airport contracts (4)	City Center contracts (5)	Project Wide contracts (9)
SV140 WOahu Stations (3) Design DB1200 WOahu Utility & Guideway DB DBB170 WOahu Station Construct	SV230 Farrington H2 Ramps Design SV240 Farrington Stations (3) Design SV245 Pearl H'land Sta & Garage Design DB200 Maint & Storage Facility DB DBB260 FarringtonH2 Ramps Construct DBB270 Farrington Station Construct DBB275 Pearl H'land Sta & Garage Constr DB1200 Farrington Utility & Guideway DB	SV330 Kam Design Utili & Guideway Design SV340 Kam Stations (2) Design DBB350 Kam Utility Relocation DBB360 Kam Guideway Construct DBB370 Kam Stations (2) Construct	SV430 Airport Utili & Guideway Design SV440 Airport Stations (3) Design DBB450 Airport Utility Relocation DBB460 Airport Guideway Construct DBB470 Airport Stations (3) Construct	SV530 City Center Utili & Guideway Design SV540 Dillingham Stations (3) Design SV542 City Center Stations (3) Design SV545 Kaka'ako Stations (3) Design DBB550 City Center Utility Relocation DBB560 City Center Guideway Construct DBB570 Dillingham Stations (3) Construct DBB572 City Center Stations (3) Construct DBB575 Kaka'ako Stations (3) Construct	SV900 Project Wide Program Mgmt SV910 Project Wide Construction Mgmt MI920 Project Wide System & Vehicles MI930 Project Wide Elevators & Escalators OF940 Project Wide Ticket Vend Machines OF950 Project Wide Plants & Shrubs

Contract Coding :

SV Service Contracts
DB Design Build Contracts
DBB Design Bid Build Contracts
MI Manufacture + Install Contracts
OF Owner Furnish Contracts
MI Manufacture + Install Contracts
OF Owner Furnish Contracts

Contract numbers typically 3 digits
First digit indicates location:

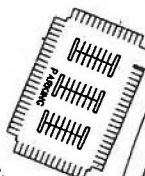
1xx West Oahu
2xx Farrington
3xx Kamehameha
4xx Airport
5xx City Center
9xx Project wide

Where 4 digits are used indicates the contract is spread over two regions.
For example DB1200 extends over W Oahu & Farrington

Second digit indicates category:
x3x Design Utility & Guideway
x4x Station design
x5x Utility relocation
x6x Guideway construction
x7x Station construction
x7x Guideway construction
x7x Station construction

Second digit rule does not apply to 9xx series.

Rev # 4
Data Date 2/01/2009
Prepared by: I Hubbard



NAME	DATE
CLASS	1-1-0

Service Contracts:

The Table below reflects the current thinking on procurement packaging of Service (SV) contracts with 14 Service contracts currently reflected in the schedule.

	Contract #	Activity #
Service Contracts (14)		
Program Management Support	SV-900	S100 S120
General Construction Management	SV-910	V100 V120
Kamehameha Utility & Guideway Design	SV-330	K108 K110 K120
Airport Utility & Guideway Design	SV-430	G120 G130 G140
City Center Utility & Guideway Design	SV-530	C100 C110 C120
West Oahu Stations (3) Design	SV-140	X100 X110
Farrington Stations (3) Design	SV-240	R120 R130
H2 Ramps at Pearl Highlands Park Facility	SV-230	R500 R510
Pearl Highlands Station & Multi Level Park Facility	SV-245	R320 R330
Kamehameha Stations (2) Design	SV-340	J100 J110
Airport Stations (4) Design	SV-440	H100 H110
Dillingham Station (3) Design	SV-540	
City Center Stations (3) Design	SV-542	U100 U110
Kaka'ako Stations (3) Design	SV-545	Y100 Y110

Design-Build Contracts:

The Table below reflects the current thinking on procurement packaging of Design-Build (DB) contracts with 3 Design-Build contracts currently reflected in the schedule.

Design-Build Construction Contracts (3)		
West Oahu/Farrington Guideway & Utilities	DB-1200	W100 W110 W120
Maintenance & Storage Facility	DB-200	M100 M110 M120

Design-Bid-Build Construction Contracts:

The Table below reflects the current thinking on procurement packaging of Design-Bid-Build (DBB) contracts with 15 Design-Build contracts currently reflected in the schedule.

Design-Bid-Build Construction Contracts (15)		
Kamehameha Utility Relocations	DBB-350	K200 K210
Salt Lake Utility Relocations	DBB-450	G200 G230
City Center Utility Relocations	DBB-550	C200 C210
Kamehameha Guideway Construction	DBB-360	K300 K310
Salt Lake Guideway Construction	DBB-460	G300 G310
City Center Guideway Construction	DBB-560	C300 C310
West Oahu Stations (3) Construction	DBB-170	X200 X210
Farrington Stations (3) Construction	DBB-270	R200 R210 R250 R260
Pearl Highlands Station & Multi Level Park Facility	DBB-275	R400 R410 R420
H2 Ramps at Pearl Highlands Park Facility	DBB-260	R600 R610
Kamehameha Stations (2) Construction	DBB-370	J200 J210 J220 J230
Airport Stations (3) Construction	DBB-470	H100 H110
Dillingham Stations (3) Construction	DBB-570	
City Center Stations (3) Construction	DBB-572	U200 U210 U220 U330
Kaka'ako Stations (3) Construction	DBB-575	Y200 Y210 Y220 Y230

Manufacture-Install Contracts:

The Table below reflects the current thinking on procurement packaging of Manufacture-Install (MI) contracts with 2 Manufacture-Install contracts currently reflected in the schedule.

Manufacture & Install Contracts (2)		
Vehicles/Systems procure, install, test,commission	MI-920	P320 P380 P420 P460 P470 T250
Elevators/Escalators procure,install,test,commission	MI-930	L100 L110

Owner Furnish Contracts:

The Table below reflects the current thinking on procurement packaging of Owner Furnish (OF) contracts with 2 Owner Furnish contracts currently reflected in the schedule.

Owner Furnish Contracts (2)		
Owner Furnish ticket Vending Machines	OF-940	TBD
Owner Furnish Plants & Shrubs	OF-950	TBD

HHCTCP Contract Packaging Plan

Rev 1 11/04/08 by I Hubbard

Contract #	SV-140		Schedule Activity #	
Contract Title	West Oahu Stations (3) Design (East Kapolei, UH West Oahu & Ho'opili) Sta 370+00 to Sta 570+00		X100, X110	
Contract info	Type		Budgeted Cost	
	QBS Selection - Service Contract		\$1,380,659	
Current Status	Proposal Date	Award Date	NTP Date	Completion Date
	6/18/2010	10/15/2010	10/16/2010	10/30/2011
Advanced Conceptual Engineering by PB Lead engineer: Martin Hall, Architect Kanuji Parmar				
Scope	1. Design East Kapolei Station, incl 12 acre Park and Ride 2. Design UH West Oahu Station, incl two 5 acre Park and Ride 3. Design Ho'opili Station (no concourse) Note: All station designs include: 1. All required Design Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park-Ride lot construction (East Kopolei - 12 acres & UH West Oahu - 2-Five acre lots) 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancillary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms			
Interface with other Contracts	MI-920 Systems and vehicles MI-930 Elevators and escalators			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				
CM Responsibility				

HHCTCP Contract Packaging Plan

Rev 1 11/04/08 by I Hubbard

Contract #	SV-230		Schedule Activity #	
Contract Title	Ramps at H2 and Utility Relocation Design		R500, R510	
Contract info	Type		Budgeted Cost	
	QBS Selection - Service Contract		\$3,591,818	
Current Status	Proposal Date	Award Date	NTP Date	Completion Date
	3/20/2010	7/17/2010	7/18/2010	7/17/2011
Scope	Advanced Conceptual Engineering by PB Lead engineer: Barry Muranaka (M&E)			
Interface with other Contracts	Design Ramps at H2 1. All required Design Permits 2. Design foundations, columns and superstructure for two Ramps at H1 / Pearl Highlands 3. Design Drainage for ramps 4. Design Lighting for ramps 5. Design Highway repairs / modifications, signage, lane markings, etc 6. Design landscaping, fencing, civil site improvements, irrigation 7. Construct laydown yard(s) and casting yard, temp easements as reqd. 8. Design all necessary utility relocations and include in DBB Contract documents .			
	SV-330 Design Utility & Guideway Kamehameha Hgwy SV-245 Design Pearl Highlands station and Multi Level parking Facility			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				
CM Responsibility				

HHCTCP Contract Packaging Plan

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Contract #	SV-240		Schedule Activity #	
Contract Title	Farrington Stations (3) Design (West Loch, Waipahu, Leeward Com College,) Sta 570+00 to Sta 770+00		R120, R130	
Contract info	Type		Budgeted Cost	
	QBS Selection - Service Contract		\$1,374,483	
Current Status	Proposal Date	Award Date	NTP Date	Completion Date
	9/13/2009	1/10/2010	1/11/2010	1/10/2011
Current Status	Advanced Conceptual Engineering by PB Lead engineer: Martin Hall, Architect: Kanuji Parmar			
Scope	1. Design West Loch Station 2. Design Waipahu Station, incl Transit Center Station 3. Design Leeward Community College Station (no concourse) Note: All station designs include: 1. All required Design Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Transit center 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancillary space and station equipment 13. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms			
Interface with other Contracts	DB-1200 West Oahu / Farrington Guideway and Utilities MI-920 Vehicle and Systems MI-930 Elevators and escalators			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				
CM Responsibility				

HHCTCP Contract Packaging Plan

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Contract #	SV-245		Schedule Activity #	
Contract Title	Design Pearl Highlands Station and Mutlti Level Parking Structure Sta 580+00 to Sta 770+00		R320, R330	
Contract info	Type		Budgeted Cost	
	QBS Selection - Service Contract		\$925,578	
Current Status	Bid Date	Award Date	NTP Date	Completion Date
	9/13/2009	1/10/2010	1/11/2010	5/25/2011
Scope	Advanced Conceptual Engineering by PB Segment Lead: Barry Muranaka, Architect Kanuji Parmar			
Interface with other Contracts	1. Design Pearl Highlands Station 2. Design Multi Level parking Facility adjacent to Pearl Highlands Note: All station designs include: 1. All required Design Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park + ride facilities 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancillary space and station equipment 13. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms			
Force Account	SV-330 Kamehameha Guideway and Utility Design			
Right of Way and Construction Easements	MI-920 Vehicle and Systems			
Design Responsibility	MI-930 Elevators and escalators			
CM Responsibility				

HHCTCP Contract Packaging Plan

Rev 1 11/04/08 by I Hubbard

Contract #	SV-330		Schedule Activity #	
Contract Title	Kamehameha Utility and Guideway Design Sta 748+04 to Sta 924+26		K108, K110, K120	
Contract info	Type		Budgeted Cost	
	QBS Selection - Service Contract		\$12,199,718	
Current Status	Proposal Date	Award Date	NTP Date	Completion Date
	9/13/2009	1/10/2010	1/11/2010	A) 5/11/2011 B) 4/15/2011
Scope	<p>Advanced Conceptual Engineering by PB Lead engineer: Hank Wei (Utilities) & Barry Muranaka (Guideway) City and County preparing RFP</p> <p>1. All required Design Permits A) Kamehameha Utility Relocation Design 1. Design OH and underground utility relocations (incl HECO, Gas, AT&T, Drainage, Hawaiian Telecom, TV cable, Water, Sewer, Petroleum) B) Kamehameha Guideway Design 1. Design guideway foundations, substructure and superstructure incl plinths and rail 2. Design conduits for Systems contracts 3. Design anchorages and base plates for Stations contracts (2 stations not included) 4. Design 3 (9, 10 & 11) TPSS - (foundations, underground conduits and risers only) 5. Design conduits in cable tray inside guideway 6. Design 2 X-Overs , incl switch machines 7. Design modifications to affected intersections including signalization 8. Design landscaping, fencing, civil site improvements and irrigation 9. Design station concourse foundation within shadow of guideway 10. Design roadway repairs - curb gutters, sidewalk, lane markings, median barriers, etc 11 Design guideway electrical services for lighting, switch machine & other wayside equipment.</p> <p>Current engineering assessment is this stretch will require 14 straddle bents + 7 C-bents.</p>			
Interface with other Contracts	DB-1200 West Oahu / Farrington Guideway and Utilities SV-430 Salt Lake Utility and Guideway Design SV-340 Kamehameha Stations (2) Design MI-920			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				
CM Responsibility				

HHCTCP Contract Packaging Plan

Rev 1 11/04/08 by I Hubbard

Contract #	SV-340		Schedule Activity #	
Contract Title	Kamehameha Stations (2) Design (Pearl Ridge & Aloha Stadium) Sta 770+00 to Sta 980+00		J100, J110	
Contract info	Type		Budgeted Cost	
	QBS Selection - Service Contract		\$2,911,979	
Current Status	Bid Date	Award Date	NTP Date	Completion Date
	11/10/2011	3/8/2012	3/9/2012	6/17/2013
Scope	Advanced Conceptual Engineering by PB Lead engineer: Barry Muranaka, Architect Kanuji Parmar			
Interface with other Contracts	1. Design Pearl Ridge Station 2. Design Aloha Stadium Station Note: All station designs include: 1. All required Design Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park + ride facilities 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancillary space and station equipment 13. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms Note Transit Center at Pearl Ridge by others.			
	SV-330 Kamehameha Guideway and Utility Design MI-920 Vehicle and Systems MI-930 Elevators and escalators			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				
CM Responsibility				

HHCTCP Contract Packaging Plan

Rev 1 11/04/08 by I Hubbard

Contract #	SV-430		Schedule Activity #	
Contract Title	Airport Utility and Guideway Design		G120, G130, G140	
	Sta 924+26 to Sta 1169+44			
Contract info	Type		Budgeted Cost	
	QBS Selection - Service Contract		\$22,491,755	
Current Status	Proposal Date	Award Date	NTP Date	Completion Date
	9/13/2009	1/10/2010	1/19/2010	11/9/2011
Scope	Advanced Conceptual Engineering by PB			
	Lead engineer: Hank Wei (Utilities) & Gary Takahashi (Guideway)			
	City and County preparing RFP			
	A) Airport Utility Relocation Design			
	1. Design OH and underground utility relocations (incl HECO, Gas, AT&T, Drainage, Hawaiian Telecom, TV cable, Water, Sewer, Petroleum)			
	B) Airport Guideway Design			
	1. Design guideway foundations, substructure and superstructure incl plinths and rail			
	2. Design conduits for Systems contracts			
	3. Design anchorages and base plates for Stations contracts (4 stations not included)			
	4. Design 6 (12 thru 17) TPSS - (foundations, underground conduits and risers only)			
	5. Design conduits in cable tray inside guideway			
	6. Design 3 X-Overs , incl switch machines			
	7. Design modifications to affected intersections including signalization			
	8. Design landscaping, fencing, civil site improvements and irrigation			
	9. Design station concourse foundation within shadow of guideway			
	10. Design roadway repairs - curb gutters, sidewalk, lane markings, median barriers, etc			
	11 Design guideway electrical services for lighting, switch machine & other wayside equipment.			
	Current engineering assessment is this stretch will require 15 straddle bents + 28 C-bents.			
Interface with other Contracts	DBB-450 Airport Utility Relocation			
	DBB-460 Airport Guideway Construction			
	SV-330 Kamehameha Guideway & Utility Design			
	SV-530 City Center Guideway & Utility Design			
	SV-440 Airport Stations (4) Design			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				
CM Responsibility				

HHCTCP Contract Packaging Plan

Rev 1 11/04/08 by I Hubbard

Contract #	SV-440		Schedule Activity #	
Contract Title	Airport Stations (3) Design (Pearl Harbor, Airport, and Lagoon Street) Sta 980+00 to Sta 1220+00		H100, H110	
Contract info	Type		Budgeted Cost	
	QBS Selection - Service Contract		\$2,038,684	
Current Status	Bid Date	Award Date	NTP Date	Completion Date
	3/9/2012	7/6/2012	1/7/2012	10/15/2013
Current Status	Advanced Conceptual Engineering by PB Lead engineer: Gary Takahashi, Architect Kanuji Parmar			
Scope	1. Design Pearl Harbor Station 2. Design Airport Station 3. Design Lagoon Street Station (no concourse) Note: All station designs include: 1. All required Design Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park + ride facilities 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancillary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms			
Interface with other Contracts	SV-430 Airport Guideway and Utility Design MI-920 Vehicle and Systems MI-930 Elevators and escalators			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				
CM Responsibility				

HHCTCP Contract Packaging Plan

Rev 1 11/04/08 by I Hubbard

Contract #	SV-530	Schedule Activity #	I-810 & I- 815
Contract Title	City Center Utility and Guideway Design Sta 1169+44 to Sta 1470+00		
Contract info	Type QBS Selection - Service Contract	Budgeted Cost \$24,098,845	
	Proposal Date 3/20/2010	Award Date 7/17/2010	NTP Date 7/18/2010
			Completion Date A) 4/13/2011 B)7/6/2012
Current Status	City and County preparing RFP		
Scope	<p>A) City Center Utility Relocation Design</p> <p>1. Design OH and underground utility relocations (incl HECO, Gas, AT&T, Drainage, Hawaiian Telecom, TV cable, Water, Sewer, Petroleum)</p> <p>B) City Center Guideway Design</p> <p>1. Design guideway foundations, substructure and superstructure incl plinths and rail</p> <p>2. Design conduits for Systems contracts</p> <p>3. Design anchorages and base plates for Stations contracts (2 stations not included)</p> <p>4. Design 5 (18 thru 22) TPSS - (foundations, underground conduits and risers only)</p> <p>5. Design conduits in cable tray inside guideway</p> <p>6. Design 4 X-Overs , incl switch machines</p> <p>7. Design modifications to affected intersections including signalization</p> <p>8. Design landscaping, fencing, civil site improvements and irrigation</p> <p>9. Design station concourse foundation within shadow of guideway</p> <p>10. Design roadway repairs - curb gutters, sidewalk, lane markings, median barriers, etc</p> <p>11. Design guideway electrical services for lighting, switch machine & other wayside equipment.</p> <p>Current engineering assessment is this stretch will require 8 straddle bents + 5 C-bents on Dillingham and 35 straddle bents + 11 C-bents on stretch from Downtown to Ala Moana.</p>		
Interface with other Contracts	DBB-550 City Center Utility Relocation DBB-560 City Center Guideway Construction SV-430 Airport Guideway & Utility Design SV-440 Airport Stations (3) Design SV-540 City Center Stations (3) Design SV-542 Dillingham Stations (3) Design SV-545 Kaka'ako Stations (3) Design MI-920 Vehicles and Systems		
Force Account			
Right of Way and Construction Easements			
Design Responsibility			
CM Responsibility			

HHCTCP Contract Packagir

Rev 1 11/04/08 by I Hubbard

Contract #	SV-540		Schedule Activity #	
Contract Title	Dillingham Stations (3) Design (Middle St, Kalihi, Kapalama) Sta 980+00 to Sta 1220+00		H100, H110	
Contract info	Type		Budgeted Cost	
	QBS Selection - Service Contract		\$1,363,683	
Current Status	Bid Date	Award Date	NTP Date	Completion Date
	9/5/2012	1/2/2013	1/3/2013	4/13/2014
Scope	Advanced Conceptual Engineering by PB			
	Lead engineer: Gary Takahashi, Architect Kanuji Parmar			
Interface with other Contracts	1. Design Middle Street Station 3. Design Kalihi Station (no concourse) 4. Design Kapalama Station (no concours			
	Note: All station designs include: 1. All required Design Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park + ride facilities 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be proc 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancillary space and 12. Fire suppression system(s) and equipment as reqd by (
Force Account	SV-530 Civic Center Guideway and Utility Design			
Right of Way and Construction Easements	MI-920 Vehicle and Systems			
Design Responsibility	MI-930 Elevators and escalators			

CM Responsibility	
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HHCTCP Contract Packaging Plan

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Contract #	SV-542		Schedule Activity #	
Contract Title	City Center Stations (3) Design (Iwilei, Chinatown & Downtown)		U100, U110	
	Sta 1220+00 to Sta 1390+00			
Contract info	Type		Budgeted Cost	
	QBS Selection - Service Contract		\$1,363,684	
	Bid Date	Award Date	NTP Date	Completion Date
	12/14/2012	4/12/2013	4/13/2013	7/22/2014
Current Status	Advanced Conceptual Engineering by PB Lead engineer: Clyde Shimuzu & Lee Takushi, Architect Kanuji Parmar			
Scope	1. Design Iwilei Station (no concourse) 2. Design Chinatown Station 3. Design Downtown Station Note: All station designs include: 1. All required Design Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park + ride facilities 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancillary space and station equipment 13. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms			
Interface with other Contracts	SV-530 City Center Guideway and Utility Design MI-920 Vehicle and Systems MI-930 Elevators and escalators			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				
CM Responsibility				

HHCTCP Contract Packaging Plan

Rev 1 11/04/08 by I Hubbard

Contract #	SV-545		Schedule Activity #	
Contract Title	Kaka'ako Stations (3) Design (Civic Center Kaka'ako, Ala Moana) Sta 1390+00 to Sta 1470+00		Y100, Y110	
Contract info	Type		Budgeted Cost	
	QBS Selection - Service Contract		\$1,363,684	
Current Status	Bid Date	Award Date	NTP Date	Completion Date
	9/5/2012	1/2/2013	1/3/2013	4/13/2014
Scope	Advanced Conceptual Engineering by PB Lead engineer: Clyde Shimuzu, Architect Kanuji Parmar			
Interface with other Contracts	1. Design Civic Center Station (no concourse) 2. Design Kaka'ako Station (no concourse) 3. Design Ala Moana Station Note: All station designs include: 1. All required Design Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park + ride facilities 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancillary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms			
Force Account	SV-530 City Center Guideway and Utility Design			
Right of Way and Construction Easements	MI-920 Vehicle and Systems			
Design Responsibility	MI-930 Elevators and escalators			
CM Responsibility				

HHCTCP Contract Packaging Plan

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Contract #	SV-900		Schedule Activity #	
Contract Title	Program Management Support Sta 370+00 to Sta 1470+00		S100, S120	
Contract info	Type		Budgeted Cost	
	QBS Selection - Service Contract		\$138,579,394	
Current Status	RFP date	Award Date	NTP Date	Completion Date
	9/12/2009	1/9/2010	1/10/2010	3/3/2019
Scope	City and County preparing RFP			
Interface with other Contracts	Perform Program Management on behalf of RTD 1. The Program Management Consultant will assist RTD with specialized support throughout the design and construction phase. 2. The Program Management Consultant will also assist RTD with oversight of design, construction, manufacturing, precasting, installation, testing and commissioning. 3. The Program Management Consultant will assist RTD with hi-level management support including political and financial issues.			
	All DB, DBB, SV, MI and OF contracts			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				
CM Responsibility				

HHCTCP Contract Packaging Plan

Rev 1 11/04/08 by I Hubbard

Contract #	SV-910		Schedule Activity #	
Contract Title	General Construction Management Support Sta 370+00 to Sta 1470+00		V100, V110	
Contract info	Type		Budgeted Cost	
	QBS Selection - Service Contract		\$251,962,535	
Current Status	Proposal Date	Award Date	NTP Date	Completion Date
	9/12/2009	1/9/2010	1/10/2010	3/3/2019
Scope	City and County preparing RFP			
	Perform General Construction Management on behalf of RTD 1. The General Construction Manager will assist RTD with procurement of service and construction contracts. 2. The General Construction Manager will assist RTD with oversight of design, construction, manufacturing, precasting, installation, testing and commissioning, 3. The General Construction Manager will assist RTD to manage the construction contracts including schedule reviews, quality, safety monitoring, environmental compliance, contractor monthly payments, claims and changes.			
Interface with other Contracts	All DB, DBB, SV, MI and OF contracts			
Force Account				
Right of Way and Construction Easements				
Design Responsibility				
CM Responsibility				

HHCTCP Contract Packaging Plan

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Contract #	DB-1200		Schedule Activity #	
Contract Title	West Oahu / Farrington Guideway & Utilities		P120, P180, P380, P230, P340,	
	Design & Construct		W100, W110, W120	
	Sta 392+00 to Sta 748+04			
Contract info	Design Build		Budgeted Cost	
	Competitive - Best Value - RFP		\$584,604,858	
	RFP Part 1 Date	RFP Part 2 Date		
	2/4/2009 A	4/3/2009		
	Proposal Due Date	Award Date	NTP Date	Completion Date
	7/31/2009	9/25/2009	11/13/2009	7/7/2013
Current Status	Advanced Conceptual Engineering / DEIS / EIS (incl Utility work by PB, RM Towill,MK, ATA, Lyon)			
	Segment Lead : Martin Hall			
	D-B Drgs & Contract packages being prepared			
Scope	Design and Construct 1. OH and underground utility relocations (incl HECO, Gas, AT&T, Drainage, Hawaiian Telecom, Cable, Water, Sewer, Petroleum) 2. Precast & Construct guideway including plinths and rail and 1 long span structure 3. Install conduits for Systems contracts 4. Install anchorages and base plates for Stations contracts (7 stations not included) 5. Install 8 (1 thru 8) TPSS - (foundations, underground conduits and risers only) 6. Install conduits in cable tray inside guideway 7. Install 5 X-Overs , incl switch machines 8. Modifications to affected intersections including signalization 9. Landscaping, fencing, civil site improvements and irrigation 10. Construct station concourse foundation within shadow of guideway 11. Roadway repairs - curb gutters,sidewalk, lane markings,median barriers, etc 12. Construct laydown yard(s) and casting yard, temp easements as reqd. 13. Guideway electrical services for lighting switch machine and other wayside equipment. 14. All permits required for construction 15. Final design and as-builts for all new and relocated facilities Current engineering assessment is this stretch will require 4 straddle bents + 2 C-bents.			
Interface with other Contracts	SV-140 West Oahu Stations (3) Design SV-240 Farrington Stations (4) Design DBB-170 West Oahu Stations (3) Construction DBB-270 Farrington Stations (4) Construction MI-920 Vehicle and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	D-B Contractor Design. TBD.			
CM Responsibility				

HHCTCP Contract Packaging Plan

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Contract #	DB-200		Schedule Activity #	
Contract Title	Maintenance and Storage Facility Design and Construct		P620, P640, P685, P530, P640	
	Sta 690+00 to Sta 724+00 approx		M100, M110, M120	
Contract info	Design Build		Budgeted Cost	
	Competitive - Best Value - RFP		\$130,630,964	
	RFP Part 1 Date	RFP Part 2 Date		
Current Status	5/29/2009	9/21/2009		
	Proposal Due Date	Award Date	NTP Date	Completion Date
	1/18/2010	3/15/2010	5/3/2010	6/10/2014
Scope	Advanced Conceptual Engineering (incl Utility work by PB, Control Pt, Sato, ATA,)			
	Segment Lead : Martin Hall / Kanuji Parmar (incl work by Urban Works & Hawaii Design)			
	D-B Drgs & Contract packages being prepared			
	Design and Construct 1. Final design and as built for all new and relocated facilities. 2. Earthwork to balance cut / fill at Navy Drum Yard 3. Construct earth retaining structure(s) 4. Construct 3-story Operation and Maintenance Bldg 5. Install operation and maintenance equipment, wheel truing machine, floor jacks, OH cranes, turntable, machine shop, etc. 6. Construct Maintenance of Way Building 6.. Construct and equip Vehicle Car Wash 7. Install service and storage tracks 8. Construct access roads and structures, illumination and two parking lots 10. Fencing, landscaping, irrigation and all utilities All permits. 12. Furnish running and third rail for the entire First Project 13. Store excess rail on the yard site for pick-up by other contractors. 14. All permits required for construction 15. Final design and as-builts for all new and relocated facilities			
Interface with other Contracts	DB-1 200 West Oahu/Farrington Guideway and Utilities DBB-350 Kamehameha Utility relocation DBB-360 Kamehameha Guideway Construction DBB-270 Farrington Stations (3) Construction MI-920 Vehicle and Systems OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Property Agreement and MOU re use of old Navy Drum Yard. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	D-B Contractor Design. TBD.			
CM Responsibility				

HHCTCP Contract Packaging Plan

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Contract #	DBB-170		Schedule Activity #	
Contract Title	West Oahu Stations (3) Construction (East Kapolei, UH West Oahu, Ho'opili) Sta 392+00 to Sta 500+00		X200, X210	
Contract info	Design Bid Build - Construct		Budgeted Cost	
	Sealed Competitive Bid		\$32,829,002	
Current Status	Bid Date	Award Date	NTP Date	Completion Date
	2/5/2012	6/3/2012	6/13/2012	5/13/2014
Scope	Advanced Conceptual Engineering Segment Lead : Architect Kanuji Parmar (PB) / Civil Martin Hall (PB)			
Interface with other Contracts	Construct 1. Obtain all required construction Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park-Ride lot construction (East Kapolei - 12 acres & UH West Oahu - 2-Five acre lots) 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12. Lighting, HVAC electrical service to ancillary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms 15. Provide as-built drawings in accordance with all City and HDOT requirements			
	DB-1200 West Oahu / Farrington Guideway and Utilities SV-140 West Oahu Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-140 TBD.			
CM Responsibility	SV-910 TBD.			

HHCTCP Contract Packaging Plan

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Contract #	DBB-275		Schedule Activity #	
Contract Title	Pearl Highlands Station and Multi Level Parking Structure Sta 580+00 to Sta 770+00		R400, R410	
Contract info	Design Bid Build - Construct		Budgeted Cost	
	Sealed Competitive Bid		\$69,240,389	
Current Status	Bid Date	Award Date	NTP Date	Completion Date
	5/26/2011	9/22/2011	9/23/2011	4/14/2014
Scope	Advanced Conceptual Engineering Segment Lead : Architect Kanuji Parmar (PB) / Civil Martin Hall (PB)			
Interface with other Contracts	Construct 1. Obtain all required construction Permits 2. Pearl Highlands Station & Multi Level Parking Structure construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park-Ride lot construction 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12. Lighting, HVAC electrical service to ancillary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms 15. Provide as-built drawings in accordance with all City and HDOT requirements			
Force Account	DB-1200 West Oahu / Farrington Guideway and Utilities SV-245 Pearl Highlands Station & Multi level parking Structure Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-245 TBD.			
CM Responsibility	SV-910 TBD.			

HHCTCP Contract Packaging Plan

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Contract # Contract Title	DBB-260 Service Ramps from H2 - Construct		Schedule Activity # R600, R610	
Current Status	Design Bid Build - Construct Sealed Competitive Bid		Budgeted Cost \$88,997,262	
	Bid Date 7/18/2011	Award Date 11/14/2011	NTP Date 11/15/2011	Completion Date 5/2/2014
	Advanced Conceptual Engineering Segment Lead: Barry Muranaka (M&E)			
Scope	Construct 1. Acquire all permits required for the work 2. Construct Ramps (2) from H2 3. Landscaping, fencing, civil site improvements, irrigation 4. Highway repairs / modifications, signage, lane markings, etc 5. Construct laydown yard(s) and casting yard, temp easements as reqd. 6. Contract includes Utility Relocation as required and identified under SV 230.			
Interface with other Contracts	DB-1 200 West Oahu/Farrington Guideway and Utilities DBB-350 Kamehameha Utility Relocation DBB-360 Kamehameha Guideway Construction DBB-275 Pearl Highlands Station & Multi Level Parking Structure Construction			
Force Account				
Right of Way and Construction Easements	Property Agreement and MOU re use of old Navy Drum Yard. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility CM Responsibility	SV-230 TBD.			

HHCTCP Contract Packaging Plan

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Contract #	DBB-270			Schedule Activity #
Contract Title	Farrington Stations (3) Construction (West Loch, Waipahu & Leeward Community College) Sta 580+00 to Sta 770+00			R200, R210, R250
Contract info	Design Bid Build - Construct		Budgeted Cost	
	Sealed Competitive Bid		\$32,682,155	
Current Status	Bid Date	Award Date	NTP Date	Completion Date
	1/11/2011	5/10/2011	5/11/2011	9/16/2013
Current Status	Advanced Conceptual Engineering Segment Lead : Architect Kanuji Parmar (PB) / Civil Martin Hall (PB)			
Scope	Construct 1. Obtain all required construction Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park-Ride lot construction 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12. Lighting, HVAC electrical service to ancillary space and station equipment 13. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms 15. Provide as-built drawings in accordance with all City and HDOT requirements			
Interface with other Contracts	DB-1200 West Oahu / Farrington Guideway and Utilities SV-240 Farrington Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-240 TBD.			
CM Responsibility	SV-910 TBD.			

HHCTCP Contract Packaging Plan

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Contract #	DBB-350		Schedule Activity #	
Contract Title	Kamehameha Utility Relocation		K200, K210	
	Construct			
	Sta 748+04 to Sta 924+26			
Contract info	Design Bid Build - Construct		Budgeted Cost	
	Sealed Competitive Bid		\$28,241,011	
Current Status	Bid Date	Award Date	NTP Date	Completion Date
	5/21/2011	9/17/2011	9/18/2011	11/15/2012
Scope	Advance Conceptual Engineering (incl Utility work by PB, M&E, Nakamura Oyama, ATA, Lyon)			
	Segment Lead: Barry Muranaka			
	Utility Conflicts being identified / Utility Relocation package being prepared			
	Construct			
	1. OH and underground utility relocations (incl HECO, Gas, AT&T, Drainage, Hawaiian Telecom, Cable, Water, Sewer, Petroleum)			
	2. Acquire all permits required for the work			
	3. Provide as-built drawings in accordance with all City and HDOT requirements			
Interface with other Contracts	SV-330 Kamehameha Utility & Guideway Design			
	SV-340 Kamehameha Station Design			
	DBB-360 Kamehameha Guideway Construction			
	DBB-370 Kamehameha Station Construction			
	MI-920 Vehicle and Systems			
	MI-930 Escalators and Elevators			
	OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd.			
	Private property agreements / easements as required			
	City is responsible for Master Agreements			
Design Responsibility	SV-330, TBD.			
CM Responsibility	SV-910 TBD.			

HHCTCP Contract Packaging Plan

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Contract #	DBB-360		Schedule Activity #	
Contract Title	Kamehameha Guideway Construction Sta 748+04 to Sta 924+26		K300, K310	
Contract info	Design Bid Build - Construct		Budgeted Cost	
	Sealed Competitive Bid		\$261,841,182	
Current Status	Bid Date	Award Date	NTP Date	Completion Date
	6/15/2011	10/12/2011	10/13/2011	12/5/2014
Current Status	Advanced Conceptual Engineering Segment Lead: Barry Muranaka (M&E)			
Scope	Construct 1. Precast and Construct guideway including plinths and rail and 1 long span structure 2. Install conduits for Systems contracts 3. Install anchorages and base plates for Stations contracts (2 stations not included) 4. Install 3 (9,10 11) TPSS - (foundations, underground conduits and risers only) 5. Install conduits in cable tray inside guideway 6. Install 2 X-Overs and switch machines 7. Modifications to affected intersections including signalization 8. Landscaping, fencing, civil site improvements, irrigation 9. Construct station concourse foundation within shadow of guideway 10. Roadway repairs - curb gutters, sidewalk, lane markings, median barriers, etc 11. Construct laydown yard(s) and casting yard, temp easements as reqd. 12. Guideway electrical services for lighting switch machine and other wayside equipment. 13. Acquire all permits required for the work 14. Provide as-built drawings in accordance with all City and HDOT requirements			
Interface with other Contracts	DBB-350 Kamehameha Utility Relocation DBB-370 Kamehameha Station Construction SV-330 Kamehameha Utility and Guideway Design SV-340 Kamehameha Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-330 TBD.			
CM Responsibility	SV-910 TBD.			

HHCTCP Contract Packaging Plan

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Contract #	DBB-370		Schedule Activity #	
Contract Title	Kamehameha Stations (2) Construction (Pearl Ridge & Aloha Stadium) Sta 880+00 to Sta 980+00 approx		J200, J210, J220	
Contract info	Design Bid Build - Construct		Budgeted Cost	
	Sealed Competitive Bid		\$22,008,197	
Current Status	Bid Date	Award Date	NTP Date	Completion Date
	6/18/2013	10/15/2013	10/16/2013	4/28/2016
Scope	Advanced Conceptual Engineering Segment Lead : Architect Kanuji Parmar (PB) / Civil Barry Murinaka (M&E)			
Interface with other Contracts	Construct 1. Obtain all required construction Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park-Ride lot construction 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12. Lighting, HVAC electrical service to ancillary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms 15. Provide as-built drawings in accordance with all City and HDOT requirements			
	DBB-350 Kamehameha Utility Relocation DBB-360 Kamehameha Guideway Construction SV-345 Kamehameha Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-340 TBD.			
CM Responsibility	SV-910 TBD.			

Rev # 1

Data Date: 11/03/2008

Prepared by: I Hubbard

HHCTCP Contract Packaging Plan

Rev 1 11/04/08 by I Hubbard

Contract #	DBB-450		Schedule Activity #	
Contract Title	Airport Utility Relocations - Construct		G220, G230	
	Sta 924+26 to 1169+44			
Contract info	Design Bid Build - Construct		Budgeted Cost	
	Sealed Competitive Bid		\$41,135,816	
Current Status	Bid Date	Award Date	NTP Date	Completion Date
	5/21/2011	9/17/2011	9/18/2011	1/14/2014
Scope	Advanced Conceptual Engineering (incl Utility work by PB, RMTowill, Ecs, ATA, Lyon)			
	Segment Lead: Gary Takahashi			
	Utility Conflicts being identified / Utility Relocation package being prepared			
	Construct			
	1. OH and underground utility relocations (incl HECO, Gas, AT&T, Drainage, Hawaiian Telecom, Cable, Water, Sewer, Petroleum)			
	2. Acquire all permits required for the work			
	3. Provide as-built drawings in accordance with all City and HDOT requirements			
Interface with other Contracts	SV-430 Airport Utility & Guideway Design SV-440 Airport Station Design DBB-460 Airport Guideway Construction DBB-470 Airport Station Construction MI-920 Vehicle and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-430 TBD.			
CM Responsibility	SV-910 TBD.			

HHCTCP Contract Packaging Plan

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Contract #	DBB-460		Schedule Activity #	
Contract Title	Airport Guideway Construction Sta 924+26 to 1169+44		G300, G310	
Contract info	Design Bid Build - Construct		Budgeted Cost	
	Sealed Competitive Bid		\$492,598,128	
Current Status	Bid Date	Award Date	NTP Date	Completion Date
	11/10/2011	3/8/2012	3/16/2012	6/28/2015
Current Status	Advanced Conceptual Engineering Segment Lead: Gary Takahashi (R M Towill)			
Scope	Construct 1. Construct guideway including plinths and rail and 2 long span structures 2. Install conduits for Systems contracts 3. Install anchorages and base plates for Stations contracts (1 station not included) 4. Install 6 (12 thru 17) TPSS - (foundations, underground conduits and risers only) 5. Install conduits in cable tray inside guideway 6. Install 3 X-Overs and switch machines 7. Modifications to affected intersections including signalization 8. Landscaping, fencing, civil site improvements, irrigation 9. Construct station concourse foundation within shadow of guideway 10. Roadway repairs - curb gutters, sidewalk, lane markings, median barriers, etc 11. Construct laydown yard(s) and casting yard, temp easements as reqd. 12. Acquire all permits required for the work 13. Provide as-built drawings in accordance with all City and HDOT requirements 14. Guideway electrical services for lighting switch machine and other wayside equipment.			
Interface with other Contracts	DBB-450 Airport Utility Relocation DBB-470 Airport Station Construction SV-430 Airport Utility and Guideway Design SV-440 Airport Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-430 TBD.			
CM Responsibility	SV-910 TBD.			

HHCTCP Contract Packaging Plan

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Contract #	DBB-470		Schedule Activity #	I-770
Contract Title	Airport Stations (3) Construction (Pearl Harbor, Airport, Lagoon) Sta 1090+00 to 1300+00		H100, H110	
Contract info	Design Bid Build - Construct		Budgeted Cost	
	Sealed Competitive Bid		\$48,475,380	
Current Status	Bid Date	Award Date	NTP Date	Completion Date
	10/16/2013	2/12/2014	2/13/2014	1/12/2017
Scope	<p>Advanced Conceptual Engineering Segment Lead : Kanuji Parmar / Gary Takahashi / Clyde Shimuzu (incl work by PB, RMTTC, DM5, KYA)</p> <p>Construct</p> <ol style="list-style-type: none"> 1. Obtain all required construction Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park-Ride lot construction 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12. Lighting, HVAC electrical service to ancillary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms 15. Provide as-built drawings in accordance with all City and HDOT requirements <p>Note Transit Center at Middle St by others</p>			
Interface with other Contracts	<p>DBB-450 Airport Utility Relocation DBB-460 Airport Guideway Construction SV-440 Airport Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines</p>			
Force Account				
Right of Way and Construction Easements	<p>Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements</p>			
Design Responsibility	SV-440 TBD.			
CM Responsibility	SV-910 TBD.			

HHCTCP Contract Packaging Plan

Rev 1 11/04/08 by I Hubbard

Contract #	DBB-550		Schedule Activity #	
Contract Title	City Center Utility Relocations Sta 1169+44 to Sta 1470+00		C200, C210	
Contract info	Design Bid Build - Construct		Budgeted Cost	
	Sealed Competitive Bid		\$199,761,577	
Current Status	Bid Date	Award Date	NTP Date	Completion Date
	5/21/2011	9/17/2011	9/18/2011	9/6/2013
Scope	Preliminary Engineering (incl Utility work by PB, Control Pt, RMTowill, RonHo, ATA, Lyon) Segment Lead : Clyde Shimuzu & Lee Takushi (Dillingham Ave) Utility Conflicts being identified / Utility Relocation package being prepared			
	Construct 1. OH and underground utility relocations (incl HECO, Gas, AT&T, Drainage, Hawaiian Telecom, Cable, Water, Sewer, Petroleum) 2. Acquire all permits required for the work 3. Provide as-built drawings in accordance with all City and HDOT requirements			
Interface with other Contracts	SV-530 City Center Utility & Guideway Design SV-540 City Center Station Design DBB-560 City Center Guideway Construction DBB-570 City Center Station Construction MI-920 Vehicle and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-530 TBD.			
CM Responsibility	SV-910 TBD.			

HHCTCP Contract Packaging Plan

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Contract #	DBB-560		Schedule Activity #	
Contract Title	City Center Guideway Construct Sta 1169+44 to Sta 1470+00		C300, C310	
Contract info	Design Bid Build - Construct		Budgeted Cost	
	Sealed Competitive Bid		\$373,255,409	
Current Status	Bid Date	Award Date	NTP Date	Completion Date
	7/7/2012	11/3/2012	1/22/2013	6/24/2016
Scope	Advanced Conceptual Engineering Segment Lead : Clyde Shimuzu (PB)			
Interface with other Contracts	Construct 1. Construct guideway including plinths and rail (no long span structures) 2. Install conduits for Systems contracts 3. Install anchorages and base plates for Stations contracts (9 stations not included) 4. Install 5 (18 thru 22) TPSS - (foundations, underground conduits and risers only) 5. Install conduits in cable tray inside guideway 6. Install 4 X-Overs 7. Modifications to affected intersections including signalization 8. Landscaping, fencing, civil site improvements 9. Construction of xx Type C Bents 10. Construction of yy Straddle Bents 11. Construct laydown yard(s) and casting yard, temp easements as reqd. 12. Acquire all permits required for the work 13. Provide as-built drawings in accordance with all City and HDOT requirements 14. Guideway electrical services for lighting switch machine and other wayside equipment.			
Force Account	DBB-550 City Center Utility Relocation DBB-570 City Center Station Construction SV-530 City Center Utility and Guideway Design SV-540 City Center Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-530 TBD.			
CM Responsibility	SV-910 TBD.			

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Contract #	DBB-570		Schedule Activity #	
Contract Title	Dillingham Stations (3) Construction (Middle St, Kalihi, Kapalama) Sta 1090+00 to 1300+00		H200, H210, H220	
Contract info	Design Bid Build - Construct		Budgeted Cost	
	Sealed Competitive Bid		\$32,425,380	
Current Status	Bid Date	Award Date	NTP Date	Completion Date
	4/14/2014	8/11/2014	8/12/2014	7/11/2017
Scope	Advanced Conceptual Engineering Segment Lead : Kanuji Parmar / Gary Takahashi / Clyde Shimuzu (incl work by PB, SSFM, AM Partners,PBR Hawaii, RMTc)			
Interface with other Contracts	Construct 1. Obtain all required construction Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordiantion with the Transit Arts Program 7. Park-Ride lot construction 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12 Lighting, HVAC electrical service to ancilliary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms 15. Provide as-built drawings in accordance with all City and HDOT requirements Note Transit Center at Middle St by others			
Force Account	DBB-550 City Center Utility Relocations DBB-560 City Center Guideway Construction SV-540 City Center Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-440 TBD.			
CM Responsibility	SV-910 TBD.			

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Contract #	DBB-572		Schedule Activity #	
Contract Title	City Center Stations (3) Construction (Iwilei, Chinatown & Downtown) Sta 1310+00 to Sta 1390+00		U200, U210, U220	
Contract info	Design Bid Build - Construct		Budgeted Cost	
	Sealed Competitive Bid		\$32,425,380	
Current Status	Bid Date	Award Date	NTP Date	Completion Date
	7/23/2014	11/19/2014	11/20/2014	6/14/2018
Scope	Advanced Conceptual Engineering Segment Lead : Kanuji Parmar / Clyde Shimuzu (incl work by PB, KGP Design Studio, Hawaii Design)			
Interface with other Contracts	Construct 1. Obtain all required construction Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park-Ride lot construction 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12. Lighting, HVAC electrical service to ancillary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms 15. Provide as-built drawings in accordance with all City and HDOT requirements			
	DBB-550 City Center Utility Relocations DBB-560 City Center Guideway Construction SV-540 City Center Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-540 TBD.			
CM Responsibility	SV-910 TBD.			

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Contract #	DBB-575		Schedule Activity #	
Contract Title	Kaka'ako Stations (3) Construction (Civic Center, Kaka'ako, Ala Moana) Sta 1400+00 to Sta 1470+00		Y200, Y210, Y220	
Contract info	Design Bid Build - Construct		Budgeted Cost	
	Sealed Competitive Bid		\$32,425,380	
Current Status	Bid Date	Award Date	NTP Date	Completion Date
	4/14/2014	8/11/2014	8/12/2014	6/4/2018
Scope	Advanced Conceptual Engineering Segment Lead : Kanuji Parmar / Clyde Shimuzu (incl work by PB, Urban Works, Hawaii Design)			
Interface with other Contracts	Construct 1. Obtain all required construction Permits 2. Station construction and finishes 3. Facilities Electrical & Mechanical 4. Site work around stations including demo if needed 5. Site landscaping 6. Coordination with the Transit Arts Program 7. Park-Ride lot construction 8. Platform to be placed on cap (caps by guideway contractor) 9. Construct canopy (foundations by guideway contractor) 10. Vertical circulation (escalators and elevators to be procured by City) 11. Construct concourse incl columns and foundations except in shadow of guideway 12. Lighting, HVAC electrical service to ancillary space and station equipment 12. Fire suppression system(s) and equipment as reqd by City Fire Dept. 14. Installation security systems & alarms 15. Provide as-built drawings in accordance with all City and HDOT requirements			
	DBB-550 City Center Utility Relocation DBB-560 City Center Guideway Construction SV-545 Kaka'ako Station Design MI-920 Vehicles and Systems MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Force Account				
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	SV-545 TBD.			
CM Responsibility	SV-910 TBD.			

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Contract #	MI-920		Schedule Activity #	
Contract Title	Vehicles and Systems		P312, P720, P990	
	Sta 370+00 to Sta 1470+00		P830, P945, T260	
Contract info	Design Build		Budgeted Cost	
	Competitive - Best Value - RFP		\$529,331,729	
	RFP Part 1 Date	RFP Part 2 Date		
Current Status	4/9/2009	7/31/2009		
	Proposal Due Date	Award Date	NTP Date	Completion Date
	2/26/2010	5/21/2010	7/9/2010	3/11/2019
Scope	Advanced Conceptual Engineering Segment Lead : Mike Becker (PB)			
Interface with other Contracts	Design & Construct 1. Design Manufacture Assemble Test Commision 60 Vehicles 2. Design Manufacture Install Traction Power Systems & Test / Commision 3. Design Manufacture Install Communication Systems & Test / Commision 4. Design Manufacture Install Signal Systems & Test / Commision 5. Systems Contract is project wide including all operation and monitoring equipment at the Manitenance Facility OCC. 6. Provide as-built drawings in accordance with all City and FTA requirements			
Force Account	All DBB Contracts Add DB Contracts MI-930 Escalators and Elevators OF-940 Ticket vending machines			
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	Design-Build TBD.			
CM Responsibility	SV-910 TBD.			

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Contract #	MI-930		Schedule Activity #	
Contract Title	Procurement, Installation, Testing Commissioning Elevators & Escalators (19 stations project wide)		L100, I110	
Contract info	Design Build		Budgeted Cost	
	Competitive - Best Value - RFP		\$78,167,334	
	RFP Part 1 Date	RFP Part 2 Date		
Current Status	Proposal Due Date	Award Date	NTP Date	Completion Date
	2/21/2011	9/17/2011	9/18/2011	1/3/2018
Scope	Advanced Conceptual Engineering Segment Lead :			
Interface with other Contracts	Procure and Install 1. Procure, Install, Test & Commission Elevators & Escalators at 19 stations project wide. Civil work on guideway structure and foundations within guideway shadow will be by guideway contractor. Station structure and finishes and foundations outside of guideway shadow will be by Station contractor Refer to scope of work by guideway and station contractors for details. Close coordination between contracts and strict compliance with all contract requirements including construction tolerances will be critical and must be enforced.			
Force Account	SV-140 thru SV-545 All station design contracts DB-1200 West Oahu and Farrington DB DBB-170 thru DBB-575 All station construct contracts OF-910 Systems and Vehicles OF-940 Ticket vending machines			
Right of Way and Construction Easements	Laydown yard(s) and casting yard, temp easements as reqd. Private property agreements / easements as required City is responsible for Master Agreements			
Design Responsibility	Design-Build TBD.			
CM Responsibility	SV-910 TBD.			

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Contract #	OF-940		Schedule Activity #	
Contract Title	Ticket Vending Machines Owner Furnish (Project wide - 19 stations)			
Contract info	Design Bid Build - Construct		Budgeted Cost	
	Sealed Competitive Bid		\$5,095,413	
Current Status	Bid Date	Award Date	NTP Date	Completion Date
	TBD			
Scope	Segment Lead : Architect Kanuji Parmar (PB)			
Interface with other Contracts	Owner Furnish			
	1. Install Ticket vending machines furnished by the City.			
Force Account	SV-140 thru SV-545 All station design contracts DB-1200 West Oahu and Farrington DB DBB-170 thru DBB-575 All station construct contracts OF-910 Systems and Vehicles			
Right of Way and Construction Easements				
Design Responsibility	TBD.			
CM Responsibility	SV-910 TBD.			

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Contract #	OF-950		Schedule Activity #	
Contract Title	Plants and Shrubs Owner Furnish Sta 370+00 to Sta 1470+00			
Contract info	Design Bid Build - Construct		Budgeted Cost	
	Sealed Competitive Bid		\$5,350,000	
Current Status	Bid Date	Award Date	NTP Date	Completion Date
	TBD			
Scope	Segment Lead : Architect Kanuji Parmar (PB) Owner Furnish 1. Install Plants and shrubs project wide furnished by the City. Note It may be decided later to subdivide this contract into smaller segments to allow small business landscaping firms to compete.			
Interface with other Contracts	All DB Contracts All DBB Contracts All SV Contracts			
Force Account				
Right of Way and Construction Easements				
Design Responsibility	TBD.			
CM Responsibility	SV-910 TBD.			

Summary of Costs by Contract Including Distribution of Soft Costs. (Data source = Jim Bagl Preliminary Estimate dated 02/26/01)									
SUMMARY OF COST AIRPORT ALIGNMENT									
Rev 3 - Updated 11-08-2006 by Hubbard									
Contract#	Components of Cost (see 3 bids estimates for source. Includes adjustments to redistribute to appropriate contract--)	Project Bids	Final Design	Permit	Construction	Insurance	Legal/Accounting	Build-up	Total Cost by Contract (not soft costs)
		3%	4.00%	0.40%	1.00%	1.00%	0.00%	3.00%	
									Total Cost by Contract (not soft costs)
DB-200	Project wide systems & Vehicles	\$43,882,147	\$43,254,004	\$43,882,147	\$43,882,147	\$43,882,147	\$43,882,147	\$43,882,147	\$43,882,147
DB-100	WOH Utility and Guideway DB	\$21,170,455	\$21,170,455	\$21,170,455	\$21,170,455	\$21,170,455	\$21,170,455	\$21,170,455	\$21,170,455
DB-200	Health & Storage Facility	\$11,157,115	\$11,157,115	\$11,157,115	\$11,157,115	\$11,157,115	\$11,157,115	\$11,157,115	\$11,157,115
DB-200	Perrington 125 Range Construct	\$79,818,172	\$79,818,172	\$79,818,172	\$79,818,172	\$79,818,172	\$79,818,172	\$79,818,172	\$79,818,172
DB-200	Kern Utility Relocation	\$30,381,448	\$30,381,448	\$30,381,448	\$30,381,448	\$30,381,448	\$30,381,448	\$30,381,448	\$30,381,448
DB-200	Alport Utility Relocation	\$30,444,687	\$30,444,687	\$30,444,687	\$30,444,687	\$30,444,687	\$30,444,687	\$30,444,687	\$30,444,687
DB-200	City Center Utility Relocation	\$18,880,083	\$18,880,083	\$18,880,083	\$18,880,083	\$18,880,083	\$18,880,083	\$18,880,083	\$18,880,083
DB-200	Kern Guideway Construct	\$28,423,171	\$28,423,171	\$28,423,171	\$28,423,171	\$28,423,171	\$28,423,171	\$28,423,171	\$28,423,171
DB-200	Alport Guideway Construct	\$40,272,082	\$40,272,082	\$40,272,082	\$40,272,082	\$40,272,082	\$40,272,082	\$40,272,082	\$40,272,082
DB-200	City Center Guideway Construct	\$29,653,159	\$29,653,159	\$29,653,159	\$29,653,159	\$29,653,159	\$29,653,159	\$29,653,159	\$29,653,159
DB-200	WO Station Construct (3)	\$20,881,310	\$20,881,310	\$20,881,310	\$20,881,310	\$20,881,310	\$20,881,310	\$20,881,310	\$20,881,310
DB-200	Perrington Station Construct (2)	\$20,544,979	\$20,544,979	\$20,544,979	\$20,544,979	\$20,544,979	\$20,544,979	\$20,544,979	\$20,544,979
DB-200	Pearl Highland Sta (1) & Storage Construct	\$64,710,644	\$64,710,644	\$64,710,644	\$64,710,644	\$64,710,644	\$64,710,644	\$64,710,644	\$64,710,644
DB-200	Kern Stations (2) Construct	\$20,588,408	\$20,588,408	\$20,588,408	\$20,588,408	\$20,588,408	\$20,588,408	\$20,588,408	\$20,588,408
DB-200	Alport Stations (2) Construct	\$45,304,084	\$45,304,084	\$45,304,084	\$45,304,084	\$45,304,084	\$45,304,084	\$45,304,084	\$45,304,084
DB-200	Dillingham Stations (2) Construct	\$20,304,084	\$20,304,084	\$20,304,084	\$20,304,084	\$20,304,084	\$20,304,084	\$20,304,084	\$20,304,084
DB-200	City Center Stations (2) Construct	\$20,304,084	\$20,304,084	\$20,304,084	\$20,304,084	\$20,304,084	\$20,304,084	\$20,304,084	\$20,304,084
DB-200	Kala Ala Stations (2) Construct	\$20,304,084	\$20,304,084	\$20,304,084	\$20,304,084	\$20,304,084	\$20,304,084	\$20,304,084	\$20,304,084
DB-200	Project Wide TBM	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
DB-200	Project Wide Pumps & Sewers	\$4,782,084	\$4,782,084	\$4,782,084	\$4,782,084	\$4,782,084	\$4,782,084	\$4,782,084	\$4,782,084
DB-200	ROW	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000
DB-200	Project Wide Program Mgmt	\$4,782,084	\$4,782,084	\$4,782,084	\$4,782,084	\$4,782,084	\$4,782,084	\$4,782,084	\$4,782,084
DB-200	Project Wide Const Mgmt	\$4,782,084	\$4,782,084	\$4,782,084	\$4,782,084	\$4,782,084	\$4,782,084	\$4,782,084	\$4,782,084
DB-200	Kern Utility & Guideway Design	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
DB-200	Alport Utility & Guideway Design	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
DB-200	City Center Utility & Guideway Design	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
DB-200	WO Stations (2) Design	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
DB-200	Perrington Stations (2) Design	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
DB-200	Perrington 125 Range Design	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
DB-200	Pearl Highland Sta & Gar Design	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
DB-200	Kern Stations (2) Design	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
DB-200	Alport Stations (2) Design	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
DB-200	City Center Stations (2) Design	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
DB-200	Dillingham Stations (2) Design	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
DB-200	Kala Ala Stations (2) Design	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
DB-200	Prime Eng	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
TOTALS		\$1,111,111,111	\$1,111,111,111	\$1,111,111,111	\$1,111,111,111	\$1,111,111,111	\$1,111,111,111	\$1,111,111,111	\$1,111,111,111